

IN THE CLAIMS:

Please amend the claims as follows:

Please cancel claims 1-11 and 14-17.

12. (Original) A radio receiver for measuring direction of a receiver as seen from a base—station transmitter, comprising:

 a demodulator for receiving and demodulating first and second signals, which have been spread by mutually orthogonal spreading codes and transmitted, from antennas of a base station that are disposed at different positions, or receiving and demodulating first and second signal transmitted by time sharing from antennas of a base station that are disposed at different positions;

 a phase-difference calculation unit for calculating a phase difference between the first and second signals transmitted from respective ones of the antennas; and

 a direction calculation unit for calculating direction of the receiver, as seen from the base station, based upon the phase difference.

13. (Original) The apparatus according to claim 12, wherein the receiver obtains a path among multipaths along which a signal arrives earliest and calculates the phase difference between the first and second signals that arrive via this path.